PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 9)



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Applicant's or agent's file reference 729/2-PCT	FOR FURTHER AC	CTION	See Form PCT/PEA/416		
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/HU2004/000082	29.07.2004		04.08.2003		
International Patent Classification (IPC) or national classification and IPC C07D243/02					
007 0240/02					
Applicant EGIS GYOGYSZERGY R RT					
This report is the international Authority under Article 35 and	al preliminary examination re d transmitted to the applican	port, established by that according to Article (nis International Preliminary Examining 36.		
2. This REPORT consists of a	total of 7 sheets, including the	nis cover sheet.			
3. This report is also accompar	nied by ANNEXES, comprisir	ng:			
	and to the International Bure	•	i		
☐ sheets of the des and/or sheets co Administrative In	ntaining rectifications authori	ngs which have been zed by this Authority (amended and are the basis of this report see Rule 70.16 and Section 607 of the		
	sure in the international app		nsiders contain an amendment that goes dicated in item 4 of Box No. I and the		
b. (sent to the Internation	nal Bureau only) a total of (ii	ndicate type and numb	per of electronic carrier(s)) , containing a		
sequence listing and/	or tables related thereto, in c ence Listing (see Section 80	computer readable form	m only, as indicated in the Supplemental		
box Holding to code	ones Elating (ess coston so				
4. This report contains indication	ons relating to the following it	tems:			
☑ Box No. I Basis of th	e opinion				
☐ Box No. II Priority	•				
🖾 Box No. III Non-estab	lishment of opinion with rega	ard to novelty, inventive	e step and industrial applicability		
☐ Box No. IV Lack of un	ity of invention		<u> </u>		
Box No. V Reasoned applicabilit	statement under Article 35(2 y; citations and explanations	 with regard to novel supporting such state 	ity, inventive step or industrial ement		
☐ Box No. VI Certain do	cuments cited				
Box No. VII Certain de	fects in the international app	lication			
☐ Box No. VIII Certain ob	servations on the Internation	al application			
Date of submission of the demand		Date of completion of	this report		
11.02.2005		15.11.2005			
Name and mailing address of the inter	national	Authorized Officer	Augus Pittor.		
preliminary examining authority: European Patent Office - Gitschiner Str. 103					
D-10958 Berlin Tel. +49 30 25901 - 0		Hoepfner, W			
Fax: +49 30 25901 - 84)	Telephone No. +49 30	25901-337		
		1			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/HU2004/000082

	Box	No. I Basis of the report				
1.	. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.					
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b))				
		□ publication of the international application (under Rule 12.4) □ international preliminary examination (under Rules 55.2 and/or 55.3)				
2. With regard to the elements * of the international application, this report is based on <i>(replacement shee have been furnished to the receiving Office in response to an invitation under Article 14 are referred to report as "originally filed" and are not annexed to this report):</i>						
	Des	cription, Pages				
	1-36	as originally filed				
	Cla	ims, Numbers				
	1-14	as originally filed				
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing				
3.		The amendments have resulted in the cancellation of:				
		☐ the description, pages ☐ the claims, Nos.				
		☐ the drawings, sheets/figs				
		☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):				
4		This report has been established as if (some of) the amendments annexed to this report and listed below				
4.	□ had Su	In not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the oplemental Box (Rule 70.2(c)).				
		☐ the description, pages ☐ the claims, Nos.				
		☐ the drawings, sheets/figs				
		 □ the sequence listing (specify): □ any table(s) related to sequence listing (specify): 				
	*	If item 4 applies, some or all of these sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT : ON PATENTABILITY

International application No. PCT/HU2004/000082

		k No. III - Non-establishment o dicability	f op	inion with regard to novelty, inventive step and industrial			
1.	The obv	questions whether the claimed ious), or to be industrially applications.	uestions whether the claimed invention appears to be novel, to involve an inventive step (to be non- us), or to be industrially applicable have not been examined in respect of:				
		the entire international application,					
	Ø	claims Nos. 10,11 (with respect to industrial applicability), 13 (partially; with respect to novelty and inventive step)					
		because:					
	×	the said international application, or the said claims Nos. 10,11 relate to the following subject matter which does not require an international preliminary examination (specify):					
		see separate sheet					
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
	\boxtimes	no international search report has been established for the said claims Nos. 13 (partially searched)					
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
		the written form		has not been furnished			
				does not comply with the standard			
		the computer readable form		has not been furnished			
				does not comply with the standard			
		the tables related to the nucleo not comply with the technical re	tide : equir	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.			
	П	Soo congrete cheet for further	detei	ile .			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/HU2004/000082

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-12, 13 (partially searched), 14

No: Claims

Inventive step (IS) Yes: Claims 1-12, 13 (partially searched), 14

No: Claims

Industrial applicability (IA) Yes: Claims 1-9,12-14

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

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Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 10 and 11 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, the International Examination Authority fully concurs with the objection put forward by the International Search Authority and no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

With the vague and unclear definition of group "Y", present claim 13 relates to an extremely large number of possible compounds.

Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claim so lacks support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope was deemed impossible by the International Search Authority.

Consequently, the International Examination Authority fully concurs with the objection put forward by the International Search Authority and no opinion will be formulated with respect to novelty and inventive step for any subject-matter of the said claim 13 which goes beyond what has been searched by the International Search Authority.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

D1: WO 97/28135 A (SCHERING AG; BERZSENYI PAL (HU); LING ISTVAN (HU); SIMAY ANTAL (HU);) 7 August 1997 (1997-08-07)

Novelty

Document D1 discloses derivatives of 8-alkoxy-2,3-benzodiazepine, methods for their preparation, intermediates and their use in the preparation of medicaments for the treatment of neurodegenerative diseases or conditions (see page 1, lines 1, 2; page 4, paragraph 3; Examples 4, 5).

Although the compounds of D1 come structurally very close to the compounds of present

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claim 1, they do not address derivatives of 8-chloro-2,3-benzodiazepine.

Consequently, the subject-matter of present independent claims 1 and 7-14 and present dependent claims 2-6 has to be regarded as novel in view of D1.

Inventive step

The distinguishing feature between the novel subject-matter and D1 is the presence of CI at position 8.

In the absence of any evidence for an unexpected technical effect linked to this feature, the objective problem underlying the said subject-matter can merely be seen as the provision of further compounds suitable for the preparation of medicaments for the treatment of neurodegenerative diseases or conditions, methods for their preparation and intermediates.

The claimed solution to this very general problem was the modification of the compounds of D1 by replacing 8-alkoxy with 8-chloro.

However, since this solution was neither anticipated nor suggested in the prior art, the presence of inventive activity has to be acknowledged for the novel subject-matter, even in the absence of a technical effect.

Industrial applicability

There is no doubt that the subject-matter of the present claims 1-9 and 12-14 is industrially applicable.

However, for the assessment of the present claims 10 and 11 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Formal matters

The round bracket at the end of the penultimate line of claim 1 appears to be redundant.

The following terms lack clarity: "lower" alkyl, "lower" cycloalkyl (claims 1, 7); "inert solid",

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"liquid carriers", "auxiliary agents", "further pharmaceutical agents" (claims 8, 9); "galenic form" claim (9).

In claim 2, it should presumably have read "C₁₋₄ alkyl".